

Activity Number	Action	Status as of September 30, 2006	2007	2008	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
Actions to Improve SBRMs for the BSAI and GOA Groundfish Fisheries, the Alaska Pacific Halibut fishery, and the State Managed MMPA Category II Salmon Fisheries							
1	Develop improved protocols for observer documentation of seabird interactions and mortalities.	Three special data collections were completed in 2006 in response to end user requests	No requests have been received for additional 2007 seabird data collections.	Will respond to identified needs.	Improved accuracy and precision in estimates of seabird interactions and bycatch.	Agreed upon special data collections will be implemented January 1st of each fishing year.	Annually on January 1.
2	Improved species identification by observers.	No new species identifications were implemented for 2006	New identifications are planned for experienced observers to work on sculpins in 2007.	Will respond to identified needs.	Improved accuracy in identification of catch and bycatch species and quantification of removals. Improved bycatch estimates through comparison of catch and estimated retention.	Agreed upon requests are incorporated into our manual and training sessions for each fishing year.	Annually.
3	Develop and implement methods for shoreside sampling of skates.	Special project to collect vertebrae from three skate species.	Special project to collect vertebrae and maturity samples from three different skate species.	Will respond to identified needs.	Understanding of magnitude and composition of skate fishery on currently unobserved vessels. Ability to compare removals with deliveries if fishery is observed.	Agreed upon requests are incorporated into our manual and training sessions for each fishing year.	Annually.
4	Enhancements to observer sampling for catch composition determination.	Field work was completed in Gulf of Alaska in Summer of 05. Contractor report completed.	No work is currently planned.	No work is currently planned.	Improved accuracy and precision in estimates of total removals by species. Improved bycatch estimates through comparison of catch and estimated retention.	Analysis completed by September 30th, 2006	Analysis completed by September 30th, 2006
5	Evaluate placement of observers on small (<60ft) groundfish vessels.	Council extended the existing program, but did not extend coverage to small vessels	No work is currently planned.	No work is currently planned.	Basis for evaluating costs and benefits associated with direct observation of bycatch on small groundfish vessels. Potential for improved bycatch estimates.	N/A	N/A
6	Certify observer workstations and monitor flow scale testing on certain vessels fishing groundfish.	This is an ongoing funded activity.	This is an ongoing funded activity.	This is an ongoing funded activity.	Improved accuracy in estimating total catch and catch composition.	All workstations are certified annually. Scales are tested each day as needed.	Annually
7	Place observer program staff on specific groundfish vessels to customize sampling protocols	Work was limited due to staff and funding constraints.	Dependent on staff and funding.	Dependent on staff and funding.	Improved sampling precision and reduction in bias. Improvements in vessel-specific and overall estimates of catch and bycatch.	Each cruise is evaluated and protocols are reviewed and revised, if needed, by the end of the FY.	Annually
8	Evaluate technologies suitable for monitoring groundfish fisheries.	Field work was conducted on a catcher processor in 06. Staff also participated on a Norwegian research cruise evaluating video technologies.	Contractor completed report. Further analysis of field data will be completed dependent on funding.	No work is currently planned.	Basis for determining best mix of technological and human resources to address specific monitoring needs. Potential for improved bycatch estimates.	Analysis completed by September 30th, 2007	Analysis completed by September 30th, 2007
9	Develop approaches for optimizing observer deployment and tasking	Engaged in ongoing consultation with scientists and managers.	Ongoing	Ongoing	Improved efficiency in allocation of observer resources. Flexibility in assigning observers based on priorities, logistics, and costs.	Changes in observer resource allocation agreed and implemented in training for the January 1 start of each fishing year.	Annually

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10	Evaluate potential for placing observers on commercial halibut vessels.	Funds were not provided in FY 06	Dependent on provision of funds.	Dependent on provision of funds.	Basis for evaluating costs and benefits associated with direct observation of bycatch on halibut vessels.	No milestones established due to lack of funds.	N/A
11	Change observer service delivery model to improve flexibility and data quality.	Council took final action to extend the existing program structure indefinitely.	Regional Office will be initiating regulatory change to implement Council action.	Will respond to identified needs.	Improved efficiency in allocation of observer resources. Flexibility in assigning observers based on priorities, logistics, and costs.	N/A.	N/A
12	Revise standard observer data collection protocols to implement new requirements.	Developing and installing the computer applications on site and on fishing vessels to allow the revised protocols.	Implement the requested changes at the start of the fishing year.	Ongoing	Improved data collections responsive to end user needs, and enabling the assessment of within haul variability.	New collection requests submitted by November 15, 2005. New collections implemented January 1 of the 07 fishing year.	This milestone is on track for completion on schedule. We received requests for several new data collections and are implementing these changes on January 1, 2007.
13	Revise observer data collection protocols to meet evolving users' needs and to improve data quality.	N/A	N/A	Data collection protocols are being revised to better meet end user needs. Revised protocols will be taught for data collections that will take place in the 2008 fishing year. In addition, any new data collections and associated database and data application changes will also be implemented at the start of 2008 if staff and funding are available to complete the work.	Improved data collections responsive to end user needs.	(a) New collection requests submitted and revisions identified (b) New collections and protocols implemented.	(a) 11/15/2006. (b) 1/1/2008
14	Investigate the impact of a real-time bycatch monitoring system on bycatch levels and fishing location choice in the BSAI.	Obtained access to real-time reports issued by Seastate.	Analyze effects of the system.	Report findings	Evaluate the extent to which alternative bycatch management strategies affect bycatch rates and fishing strategies.	By the development of a model to assess the bycatch system.	Milestone for obtaining data was met; report will be done in 2008.
15	Improve methodology for estimating prohibited species bycatch.	Prepare modeling strategy work with AKR to understand current bycatch estimation procedure for unobserved vessels.	Develop bycatch estimation model and compare with current AKR approach.	Report findings	Increased precision in estimating overall prohibited species amounts or rates, by statistical area, gear type, and mode of operation.	Development of new methodologies to estimate bycatch.	Annually

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16	Develop indicators of fish condition for prediction of discard and escapee mortality.	Initial laboratory work has indicated behavior and injury can be used to predict discard and escapee mortality. Continue studies on condition measures for mortality that may be used in the field.	Continue studies on condition measures for mortality. Begin preliminary field studies for use of condition measures to predict discard and escapee mortality.	Project completed 2007	The development of new, sensitive behavioral measures of delayed mortality in discards from fisheries will improve the SBRMs and the resulting estimates of bycatch mortality and could be used to improve discard procedures.	Completion of experiments and production of peer-reviewed articles in scientific journals. This research will improve SBRMs for the BSAI and GOA groundfish fisheries and the Alaska Pacific halibut fishery.	(a) 9/1/2006 studies continuing and papers published, submitted for publication: Davis and Ottmar, Fish. Res. 2006, in press; Davis ICES J. Mar. Sci., 2006, in review.
17	Evaluate the need for additional compliance resources to maintain the integrity of the observer data.	AED is evaluating certain technologies to assist in observer related enforcement activities and continues to work closely with the observer program to address bycatch related compliance issues.	Ongoing	Ongoing	Decreased occurrences of interference with observer sampling or reporting by crew and stricter adherence to performance requirements by observers.	AED will continue to work with observer program staff to provide support for observer interference activities on a case by case basis. AED will continue to work with SF and observer program staff on alternative monitoring technologies.	AED will participate in technical working groups as needed.
18	Review compliance issues associated with current bycatch reduction programs.	Alaska Enforcement Division (AED) continues to play an active role in recommending monitoring and enforcement activities for Council actions. Enforcement actions for bycatch related violations are handled on a case by case basis.	Ongoing	Ongoing	Bycatch reduction programs which greatly reduce or eliminate incentives for interfering with monitoring.	AED will continue to work with NMFS and Council staff to provide support for bycatch reduction actions.	AED will participate as needed.
19	Promote the use of electronic logbooks to facilitate identification and correction of bias in estimating bycatch for unobserved vessels.	Development of proposed rule. Catcher vessel electronic logbook is currently being used by some vessels. Final rule would allow vendors to propose to NMFS an electronic logbook for all vessels.	Proposed rule anticipated to be published February 2007. Final rule anticipated to be published May 2007.	Implementation.	More complete, accurate and timely data will be available to identify and correct for bias in estimating bycatch for unobserved vessels.	Ongoing support for catcher vessel electronic logbook.	Anticipated implementation January, 2008.

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20	Evaluate methods for improving bycatch estimates of marine mammals in state managed MMPA Category II salmon fisheries.	Analysis of 2005 Alaska Marine Mammal Observer Program data collections in Kodiak setnet fishery.	Observe Yakutat set-gillnet salmon fishery.	Observe Yakutat set-gillnet salmon fishery.	Increased accuracy and precision to determine if PBR levels are exceeded, categorizing fisheries in annual List of Fisheries, and determining whether a fishery has approached a zero mortality rate.	Observation of Yakutat set-gillnet fishery.	Summer 2007 and 2008
21	Promote interagency efforts to develop electronic reporting of landings data by trip.	Implemented required electronic reporting for crab in August, 2005. Development of electronic reporting system for groundfish fisheries and halibut.	Proposed rule anticipated to be published February 2007. Final rule anticipated to be published May 2007. Continued support of crab electronic support systems.	Implementation.	More complete, accurate and timely data will be available to identify and correct for bias in estimating bycatch for unobserved vessels.	Completion and implementation of groundfish electronic reporting system.	Implementation January 2008
22	Implement non-discretionary measures identified in Biological Opinion issued by USFWS on impacts of Pacific halibut longline fishery on ESA-listed seabird species. Increase information on incidental groundfish catch in halibut fishery.	Project initiated among IPHC, AFSC, and AKR to conduct a feasibility study of halibut fishery monitoring options and a pilot study evaluating electronic monitoring technologies.	Ongoing	Ongoing	Adequate monitoring of Pacific halibut longline fishery for incidental take of ESA-listed and other seabird species, and incidental catch of groundfish species.	Development of monitoring plan for the halibut fishery, including identification of resources; coordination with Council initiative and AFSC Observer Program. Monitor activities of Council, AKR, AFSC that relate to this item.	Monitoring plan for the halibut fishery.
Improve Our Ability to Estimate the Biological, Ecosystem, Social, and Economic Effects of Bycatch and of Alternative Methods for Reducing Bycatch							
1	Stock assessment research for non-target groundfish species.	Cindy Tribuzio, Ph.D. Fisheries (UAF), is writing a thesis on BSAI Alaska skate reproductive biology. New assessments may be conducted, conditional on funding issues and observer program resource limitations. Beth Matta completed a masters thesis on the life history of Alaska skate in the summer of 2006. Stock assessments were prepared for skates, squid, sculpin and octopus.	Assessments will be updated, conditional on funding and priorities. Observer special projects will be initiated including: 6 species of sculpin in the BSAI and 5 species in the GOA will be identified, length and sex information will be collected for sharks, weights and sex of octopus, length and sex for skates, and species identification and otolith collections will be taken for grenadiers.	Assessments will be updated, conditional on funding and priorities. Observer special projects will be initiated including: 6 species of sculpin in the BSAI and 5 species in the GOA will be identified, length and sex information will be collected for sharks, weights and sex of octopus, length and sex for skates, and species identification and otolith collections will be taken for grenadiers.	Improve the quality of catch, life history, abundance and assessment information on species where stock status is poorly defined or unknown.	Stock assessments will provide information on the bycatch of species, their size and sex.	December 2007 SAFE chapters will be completed

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2	Ecosystem research on the effects of bycatch.	Project is completed. A report has been published.	none	none	Extending rights-based fishery management to include habitat impacts as a separable property right appears to be an efficient and effective means of achieving habitat protection and can achieve habitat protection objectives similar to MPAs, but with greater flexibility in achieving the targets for protected habitat and species at a lower cost.	n/a	Milestones completed
3	Economic and social science data collection and research.	Paper with Kurt Schnier and Rob Hicks to be completed. Work will be presented at professional conferences and at the AFSC.	Work on real-time salmon bycatch modeling for pollock fishery.	Prepare report.	Improved ability to determine the social and economic impacts of bycatch and bycatch management measures and to model fishing behavior.	By our ability to measure decreases in bycatch and fishery closures associated with pollock fishing.	Annually.
4	Using flatfish behavior to reduce halibut bycatch.	Submit first manuscript on comparative behavior of flatfish responses to sweeps. Continue to develop and conduct field experiments with acoustic camera examining the effects of illumination on flatfish responses to trawl gear.	Complete data analysis for 2006 experiments.	No research planned for 2008	Reduced halibut bycatch. Laboratory experiments were completed on the comparative behavior of flatfish responses to sweeps.	Determine efficacy of flatfish behavior as a means of reducing halibut (and other species) bycatch, and offer recommendations on gear modifications that may reduce bycatch.	(a) Complete day/night experiments off Oregon. 9/6/2006. (b) Complete analysis of acoustic camera imagery from field experiments. 9/7/2006.
5	Improved seabird bycatch reporting	Finalize improvements to statistical analysis of seabird bycatch -- revised tentative deadline as of 11/2006; complete this component by 5/1/2007	Using improved analysis methods, analyze seabird bycatch in Alaskan waters by time/area cells and fishery sectors.	Produce peer-reviewed paper(s) describing seabird bycatch in Alaska groundfish fisheries.	Improved accuracy and precision in estimates of seabird interactions and bycatch.	Analysis techniques reviewed and approved by peers; bycatch numbers produced.	Project is delayed due to other high priority activities. Staff are meeting to establish new deadlines -- tentative deadlines are (a) tech memo on techniques. 5/1/2007. (b) peer reviewed paper on bycatch. 5/1/2008.

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6	Seabird use of fishery discards and offal. NRC postdoc established to work on issue, mapping of discards, and stable isotope sampling started.	Mapping of availability of discards/offal; continue exploration for fishery signal in stable isotope data; implement special data collection projects.	Complete project and define linkage between seabird bycatch and offal/discard production. Revision to milestone as of 11/2006: collaborate with the USFWS to conduct work on albatross populations that will look at known breeding success and determine if a fishery linkage exists.	Assess results of work and determine if changes to offal and discard management are needed.	Define linkage between seabird bycatch and offal/discard production.	Completion of peer-reviewed papers.	Project was extended by 7 months to take advantage of opportunities at albatross colonies. (a) nearly complete - new due date is January 07. (b) one of three papers is nearly complete. New due date is July 2007 for completion of overall project.
Encourage the Development and Use of Gear Technologies that Provide Efficient Methods for Reducing Bycatch							
1	Cooperative research to develop trawl methods to reduce salmon bycatch during pollock trawling	Presentations on 05 field work. Field testing of design improvements (depending on funding).	Project report and publications, transition excluders to fishery.	Complete transition to fishery	Reduced incidental catch of salmon in directed pollock fisheries.	Documentation of reduced bycatch rates with excluders, excluder use in fisheries.	(a) analysis completed and industry seminar to report of 2005 fieldwork. 11/1/2005 (b) 14-20 days field evaluations and observations. 9/1/2006 (c) analysis and report on 2006 field work. 2/1/2007.
2	A project to study the behavioral response of rock sole to disturbance by bottom trawl gear in order to determine how natural behaviors may be utilized to assist in bycatch reduction efforts in the rock sole fishery.	Submit first manuscript on comparative behavior of flatfish responses to sweeps. Continue to develop and conduct field experiments with acoustic camera examining the effects of illumination on flatfish responses to trawl gear.	Complete data analysis for 2006 experiments.	none	Reduced incidental catch in directed rock sole fisheries.	Complete experiment, data analysis.	Annually.

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3	Trawl vessel interactions with seabirds	Continue work to characterize problem by trawl fishery sector: complete technology assessment; continue collaborative efforts to develop mitigation measures.	Report on characterization; continue collaboration on mitigation measures; identify fishery sectors where efforts should be focused.	none	Characterize, minimize, mitigate trawl vessel interactions with seabirds, particularly the short-tailed albatross; this work will address non-discretionary measures required of NMFS in a USFWS BiOp (Sept 2003).	Finish purchase orders and produce reports.	Revised deadlines as of 11/2006: (a) purchase orders implemented 6/1/2006. Work is done. (b) report on technology assessment completed -- change to 3/1/2007. (c) collaborators report on 1st generation mitigation measures. 4/1/2007. (d) identify sectors which may need to use mitigation measures. 8/1/2007. Close out gear development projects: 3/1/2007 (one of two is complete as of 11/2007).
4	Improve spatio-temporal characterization of seabird bycatch estimates.	Meet requirements to assess risk to short-tailed albatross and continue field work, if funds available.	Results provided for short-tailed albatross risk assessment and threshold analysis. Spatio-temporal improvements to seabird bycatch reporting is tied to item above.	Coordination with USFWS and AKR on short-tailed albatross recovery issues.	Improved characterization of when and where seabirds are being incidentally taken can assist in efforts to reduce this incidental take.	Peer-reviewed papers by collaborators relevant to risk assessment and threshold analysis.	Papers submitted by 6/1/2007.
5	Modify bottom trawls to reduce effects on seafloor habitats.	Completion of initial field studies to evaluate catch rates effects. Develop and test technology to evaluate changes in effects on seafloor habitat. 10 days field work (depending on funding).	Analyze 06 results and present to potential users. Further design improvements and testing. (Depends on Funding)	Analyze 2007 results and present to potential users. Further design improvements and testing.	Reduced effects to structure forming sessile animals.	Documentation of reduced effects to structure forming sessile animals with minimal reduction in target catch rates.	(a) Complete initial 14 day evaluation of catch effects and sled prototype. 10/1/2005 (b) Present initial findings to NPFMC. 12/1/2005 (c) 14-25 days field evaluations and observations. 7/1/2006 (d) present 2006 findings to NPFMC. 12/12/2007.
6	Measure injury/mortality rates of crabs encountering trawls	n/a	Develop study methods, apply for NPRB funding, pilot study.	Full scale field experiments (dependant on successful NPRB proposal).	Documentation of mortality and injury rates.	Documentation of mortality and injury rates.	(a) Fund proposals. 12/1/2006. (b) Initial field work. 7/15/2007. (c) Primary field work. 9/15/2008.

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7	Seabird interactions with longline gear	Complete an analysis of vessel-specific bycatch rates for 2005 -- Revised deadline as of 11/2006 is to complete this in 2007, depending on funding availability.	Prepare a report on vessel-specific rates based on FY06 analysis -- Revised target as of 11/2006 is to complete this report in 2008 (see next box), dependent on funding availability. Analysis of vessel-specific bycatch rates through 2006 targeted.	Prepare a report on vessel-specific seabird bycatch rates for groundfish longline vessels based on new FY2007 analysis	Documentation of vessel seabird bycatch rates published in Technical memo or better.	List of vessel by vessel seabird bycatch rates.	Completion date in FY2008 if funding is available.
8	Develop halibut excluders for groundfish fisheries.	Initial results analyzed and reported to potential users. Field work will continue. Emphasis will shift to cod fishery. (Depends on funding)	Analyze 2006 results and present to potential users. Further design improvements and testing. (Depends on Funding)	Analyze 2007 results and present to potential users. Further design improvements and testing. (Depends on funding)	Reduced incidental halibut catch in directed groundfish fisheries.	Documentation of reduced bycatch rates with excluders, excluder use in fisheries.	(a) Analysis and report on 05 fieldwork. 2/1/2006 (b) 6 10 days field evaluations and observations. 8/1/2006 (c) Analysis and report on 2006 work. 3/1/2007.
Develop and Implement More Effective and Efficient Management Measures to Reduce Bycatch							
1	Accounting interval change for certain Maximum Retainable Amounts (MRA).	Council final action December, 2006.	Publish proposed and final rule; implement end of 2007	Ongoing	Decrease regulatory discards and increase retention for all non-AFA vessels in the BSAI.	Report to Council on increased pollock retention.	Implementation end of 2007.
2	Minimum Groundfish Retention Standard (GRS).	Final rule published April 6, 2006 (71 FR 17362).	Vessels subject to rule adapt fishing practices to conform to the GRS, alter vessels to meet monitoring requirements.	Effective January 20, 2008, pending litigation.	Create a standard for retention of groundfish for the BSAI groundfish fishery, reduce groundfish discards, while continuing to allow for a multi-species trawl fishery to continue to be a viable fishery.	Implementation of program.	Implementation January 20, 2008
3	Harvesting Cooperatives for the BSAI head and gut catcher processors and quota allocations to all sectors: Amendment 80.	Final action scheduled February, 2006. Publish proposed rule.	Publish final rule.		Facilitate rationalization of some sectors in the BSAI. Rationalization would eliminate the race for fish and allow cooperative behavior to decrease discards.	Proposed and final rule published.	Implementation January 20, 2008
4	Extend North Pacific Groundfish Observer Program beyond December 31, 2007.	Final action June, 2006.	Publish proposed and final rule.	Ongoing	Continued collection of catch and bycatch data, and management monitoring programs.	Publish final rule.	Continue Observer Program beyond 2007.
5	Non-target species management.	Continued development of problem statement and Alternatives. Dependent on MSA reauthorization.	Continued development of problem statement and Alternatives. Dependent on MSA reauthorization.	Publish proposed and final rule.	Optimization of sustainable yield of non-target species, where possible, while also protecting them from potential overfishing.	Publish proposed and final rule.	Publish proposed and final rule. 2008.
6	GOA groundfish fishery rationalization.	Development of options and components for analysis.	Ongoing; Council action as needed.	Ongoing; Council action as needed.	Provide opportunities to address conservation goals by providing opportunities to utilize fishing methods that reduce bycatch and gear conflicts.	Publish proposed and final rule.	This action is scheduled for review by the Council in December, February, and April.

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7	Essential Fish Habitat (EFH)	Continued development of BS action.	Anticipate publish proposed and final rule.	Anticipate implementation.	Minimizing the adverse effects of Council managed fisheries by describing EFH for these fisheries and identifying HAPCs.	Proposed and Final Rule for GOA and AI published. Continued development of BS action according to Council schedule.	Implementation of BS action 2008.
8	BSAI Salmon bycatch (Am 84a and 84b)	Council final action October, 2005.	Publish proposed and final rule.	Anticipate implementation of Am 84a by January 20, 2008. Continued development of Am 84b. Continued development of Am 84b.	Am 84a: reduce salmon bycatch by repealing salmon savings areas and allowing pollock vessels to utilize their voluntary rolling hotspot system to avoid high bycatch areas. Am 84b: evaluate alternative salmon savings areas based on historic information and/or incorporate individual bycatch quotas to reduce salmon bycatch.	Publish Am 84a final rule and implementation of program.	Implementation of Am 84a by January 20, 2008.
9	CGOA Rockfish Pilot Project	Proposed rule published June 7, 2006.	Anticipate final rule published late 2006, implementation January 2007.	Ongoing	Provide opportunities to address conservation goals by providing opportunities to utilize fishing methods that reduce bycatch and gear conflicts.	Publish final rule and program implementation.	Final rule November, 2006. Implementation January, 2007.
10	Salmon bycatch reduction EFPs	2006 EFP concludes November 1, 2006. Anticipate issuing similar EFP for 2007 fishing year.	Fishing under EFP	Report findings	Reduce salmon bycatch by repealing salmon savings areas and allowing pollock vessels to utilize their voluntary rolling hotspot system to avoid high bycatch areas. EFPs will allow cooperatives to explore the effectiveness of internal agreements to reduce salmon bycatch.	Report to Council and NMFS on findings.	Reports at December 2006, February 2006, December 2007, and February 2008 Council meetings.
11	Seabird bycatch reduction in longline fishery.	Continue efforts on small boat requirements; collaborations with Washington Sea Grant Program, USFWS, AFSC.	Continue efforts on improvements to seabird avoidance measures. Improvements may include revised small boat requirements, line weighting requirements.	Ongoing	Reduce levels of incidental take of seabirds.	Monitor levels of incidental take of seabirds. Monitor status of proposed and final rulemakings.	Reduced levels of incidental take of seabirds. Published proposed and final rulemakings.
Improve the Outreach Activities that Assist in Meeting the First Four Objectives and Provide Information that Can Be Used to Address Bycatch Problems in Other Fisheries							
1	Improve bycatch information available to industry.	Working with private fisheries management firms to provide accurate, precise, and timely bycatch information for transmittal to fleet.	Ongoing	Ongoing	Industry will be better informed about gear technology, the effects of bycatch, and inseason bycatch data and can make better decisions to avoid bycatch.	Progress will be measured by ability of individual sectors to avoid bycatch and manage allocations and TACs.	Remaining below TACs, allocations, and PSC levels.
2	Improve bycatch information available to fishery managers, and other stakeholders, including the public at large.	Annually present bycatch information to the Council on the effects of regulatory discards.	Ongoing	Ongoing	Fisheries managers and the public will be able to make better decisions regarding management actions and policies.	Presentation of bycatch information to the Council on the effects of regulatory discards.	Annually
3	Obtain better bycatch information.	Current efforts to improve salmon bycatch estimation.	Ongoing	Ongoing	Programs under this activity will be used to support outreach efforts under other activities under this heading.	Presentation of salmon bycatch information to the Council.	Annually

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4	Participation in international efforts to address bycatch problems.	The NMFS National Seabird Program is coordinated out of the AKR and engages in numerous activities to promote international action to effectively address seabird/fishery issues.	Ongoing	Ongoing	Support information needs for decision makers outside the U.S. to decrease bycatch and obtain information to provide efficiencies in domestic efforts to reduce bycatch.	Maintain record of NMFS's involvement with international seabird activities and events.	Any products (reports, papers) from joint US/international seabird bycatch reduction efforts.